

**NUS Graduate School for Integrative Sciences and Engineering
Research Project Write-up**

Title of Project : Advanced Analytics and Services for Digital Libraries

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Short Description

Scholarly digital libraries archive and make accessible all forms of research advances. However, to date, they have functioned more as a controlled means for downloading finished research products (PDFs) to scholars, and have played little role in the actual organization and use of science.

We aim to change this by using natural language processing techniques to introspect the scientific literature itself. By turning NLP tools on scientific literature, we can extract and aggregate scientific information and become aware of new methods, tools, datasets and fields of study. Applications include scientific trend analysis (a large initiative in the US NSF and DARPA programme offices), comparative analysis and related work summarization and generation and better citation classification methodologies.

While not as relevant for Ph.D. students, I suggest that you read my notes on FYPs and UROPs (<http://www.comp.nus.edu.sg/~kanmy/hyp.html>) and learn about the organization and resources available to WING (familiarize yourself with the WING website <http://wing.comp.nus.edu.sg/>, and read the WING mailing list archives, esp. this post: <http://wing.comp.nus.edu.sg/pipermail/wing/2006-May/000123.html>)